9.9.5 Short overview (A-Z)

The table below contains all error messages of the inverter operating system in alphabetical order.

Note!

For the sake of legibility, the Logbook and C00165 display the error number with the following syntax:
[Error type].[Error subject area no.].[Error ID]

In this documentation, "xx", a wildcard, stands for the error type since it is configurable for many error messages.

Tip!

If you click the cross-reference in the first column, "Error number", you will reach the detailed description of the respective error message in the following chapter "Cause & possible remedies". (📖 468)

Error number 32 bits	16 bits$_{hex}$	16 bits$_{dec}$	C00162/1	Error message	Response (Lenze setting)	Adjustable in	CAN emergency error code
xx.0125.00001	0x1901	6401	8192001	An01: AIN1_I < 4 mA	TroubleQuickStop	C00598/1	0xF000
xx.0131.00006	0x1f06	7942	8585222	CA06: CAN CRC error	No Reaction	C00592/1	0x8000
xx.0131.00007	0x1f07	7943	8585223	CA07: CAN Bus Warn	No Reaction	C00592/3	0x8000
xx.0131.00008	0x1f08	7944	8585224	CA08: CAN Bus Stopped	No Reaction	C00592/4	0x8000
xx.0131.00011	0x1f0b	7947	8585227	CA0b: CAN HeartBeatEvent	No Reaction	C00592/5	0x8130
xx.0131.00015	0x1f0f	7951	8585231	CA0F: CAN control word	Fault	C00594/1	0xF000
xx.0127.00002	0x1b02	6914	8323074	CE04: MCI communication error	No Reaction	C01501/1	0x7000
xx.0127.00015	0x1b0f	6927	8323087	CE0F: MCI control word	Fault	C00594/2	0xF000
xx.0135.00001	0x2301	8961	8847361	CE1: CAN RPDO1	No Reaction	C00593/1	0x8100
xx.0135.00002	0x2302	8962	8847362	CE2: CAN RPDO2	No Reaction	C00593/2	0x8100
xx.0135.00003	0x2303	8963	8847363	CE3: CAN RPDO3	No Reaction	C00593/3	0x8100
xx.0131.00000	0x1f00	7936	8585216	CE4: CAN Bus Off	No Reaction	C00592/2	0x8000
xx.0135.00004	0x2304	8964	8847364	CE5: CAN RPDO4	No Reaction	C00593/4	0x8100
xx.0140.00013	0x280d	10253	9175053	CI01: Module missing/incompatible	No Reaction	C01501/2	0x7000
xx.0184.00005	0x5405	21509	12058629	Ck15: Error message sig. brake	TroubleQuickStop	-	0x8600
xx.0184.00064	0x5440	21568	12058688	Ck16: Time overrun manual operation	Fault	-	
xx.0145.00001	0x2d01	11521	9502721	dF01: FW updated	No Reaction	-	
xx.0145.00035	0x2d23	11555	9502755	dF10: AutoTrip reset	Fault	C00189	0xF000
xx.0145.00014	0x2d0e	11534	9502734	dF14: SW-HW invalid	Fault	-	
xx.0145.00024	0x2d18	11544	9502744	dF18: BU RCOM error	Fault	-	0x6100
xx.0145.00033	0x2d21	11553	9502753	dF21: BU watchdog	Fault	-	0x6100
xx.0145.00034	0x2d22	11554	9502754	dF22: CU Watchdog	Fault	-	0x6100
xx.0145.00025	0x2d19	11545	9502745	dF25: CU RCOM error	Fault	-	0x6100
xx.0145.00026	0x2d1a	11546	9502746	dF26: Appl. watchdog	No Reaction	C00580/1	0x6200
xx.0145.00050	0x2d32	11570	9502770	dF50: Retain error	Fault	-	0x6100
xx.0145.00051	0x2d33	11571	9502771	dF51: CuCcr error	Fault	-	0x6100
xx.0145.00052	0x2d34	11572	9502772	dF52: BuCcr error	Fault	-	0x6100
xx.0400.00009	0x1a09	6665	26214409	dH09: EEPROM power unit	Fault	-	0x5500
xx.0400.00016	0x1a10	6672	26214416	dH10: Fan failure	Warning	C00566	0x5000
xx.0400.00104	0x1a68	6760	26214504	dH68: Adjustment data error CU	Fault	-	0x5500
xx.0400.00105	0x1a69	6761	26214505	dH69: Adjustment data error BU	Fault	-	0x5500

Error number			C00162/1	Error message	Response (Lenze setting)	Adjustable in	CAN emergency error code
32 bits	16 bits$_{hex}$	16 bits$_{dec}$					
xx.0400.00106	0x1a6a	6762	26214506	dH70: ControlUnit is unequal to BaseUnit	Fault	-	0x5500
xx.0123.00094	0x175e	5982	8061022	FC01: Switching frequency reduction	No Reaction	C00590	0x2000
xx.0123.00095	0x175f	5983	8061023	FC02: Maximum speed for Fchop	No Reaction	C00588	0xF000
xx.0123.00099	0x1763	5987	8061027	FC03: Limitation field controller	No Reaction	C00570/4	0xF000
xx.0123.00057	0x1739	5945	8060985	Id1: Motor data identification error	Fault	-	0xF000
xx.0123.00058	0x173a	5946	8060986	Id3: CINH identification	WarningLocked	-	0xF000
xx.0123.00059	0x173b	5947	8060987	Id4: Resistance identification error	Warning	-	0xF000
xx.0123.00074	0x174a	5962	8061002	Id5: Pole position identification error	Fault	C00643/1	
xx.0123.00060	0x173c	5948	8060988	Id7: Motor control does not match motor data		C00571/1	0xF000
xx.0123.00061	0x173d	5949	8060989	Id8: Speed sensor has not been set	Fault	C00571/2	0x7120
xx.0123.00145	0x1791	6033	8061073	LP1: Motor phase failure	No Reaction	C00597	0x3000
xx.0123.00015	0x170f	5903	8060943	LU: DC bus undervoltage	Trouble	C00600/1	0x3100
xx.0123.00016	0x1710	5904	8060944	oC1: Power section - short circuit	Fault	-	0x2000
xx.0123.00030	0x171e	5918	8060958	oC10: Maximum current reached	No Reaction	C00609	0x2000
xx.0123.00071	0x1747	5959	8060999	oC11: Clamp operation active	Fault	-	0xF000
xx.0123.00065	0x1741	5953	8060993	oC12: I2xt brake resistor overload	No Reaction	C00574	0xF000
xx.0123.00090	0x175a	5978	8061018	oC13: Maximum current for Fch exceeded	Fault	-	0xF000
xx.0123.00096	0x1760	5984	8061024	oC14: Direct-axis current controller limitation	No Reaction	C00570/1	0xF000
xx.0123.00097	0x1761	5985	8061025	oC15: Cross current controller limitation	No Reaction	C00570/2	0xF000
xx.0123.00098	0x1762	5986	8061026	oC16: Torque controller limitation	No Reaction	C00570/3	0xF000
xx.0123.00031	0x171f	5919	8060959	oC17: Clamp sets pulse inhibit	No Reaction	C00569/1	0xF000
xx.0123.00034	0x1722	5922	8060962	oC18: Current monitoring overload	No Reaction	C00584/1	0x2000
xx.0123.00066	0x1742	5954	8060994	oC19: short circuit of brake resistor	Fault	-	
xx.0123.00017	0x1711	5905	8060945	oC2: Power section - earth fault	Fault	-	0x2000
xx.0119.00050	0x1332	4914	7798834	oC5: Ixt overload	Warning	C00604	0x2000
xx.0123.00105	0x1769	5993	8061033	oC6: I2xt motor overload	Warning	C00606	0x2000
xx.0123.00007	0x1707	5895	8060935	oC7: Motor overcurrent	Fault	-	0x2000
xx.0119.00001	0x1301	4865	7798785	oH1: Heatsink overtemperature	Fault	-	0x4000
xx.0119.00015	0x130f	4879	7798799	oH3: Motor temperature (X106) triggered	Fault	C00585	0x4000
xx.0119.00000	0x1300	4864	7798784	oH4: Heatsink temp. > shutdown temp. -5°C	No Reaction	C00582	0x4000
xx.0123.00032	0x1720	5920	8060960	oS1: Maximum speed limit reached	No Reaction	C00579	0x8400
xx.0123.00033	0x1721	5921	8060961	oS2: Max. motor speed	Fault	-	0x8400
xx.0123.00001	0x1701	5889	8060929	ot1: Max. torque reached	No Reaction	C00608	0x8300
xx.0123.00093	0x175d	5981	8061021	ot2: Speed controller output limited	No Reaction	C00567	0xF000
xx.0123.00014	0x170e	5902	8060942	OU: DC bus overvoltage	Trouble	-	0x3100
xx.0144.00001	0x2c01	11265	9437185	PS01: No memory module	Warning	-	0x6300
xx.0144.00002	0x2c02	11266	9437186	PS02: Par. set invalid	Fault	-	0x6300
xx.0144.00003	0x2c03	11267	9437187	PS03: Par. set device invalid	Fault	-	0x6300
xx.0144.00004	0x2c04	11268	9437188	PS04: Invalid MCI par. set	Fault	-	0x6300
xx.0144.00007	0x2c07	11271	9437191	PS07: Par. mem. module invalid	Fault	-	0x6300
xx.0144.00008	0x2c08	11272	9437192	PS08: Par. device invalid	Fault	-	0x6300
xx.0144.00009	0x2c09	11273	9437193	PS09: Par. format invalid	Fault	-	0x6300
xx.0144.00010	0x2c0a	11274	9437194	PS10: Memory module link invalid	Fault	-	
xx.0144.00011	0x2c0b	11275	9437195	PS11: Lenze setting loaded	No Reaction	-	
xx.0144.00012	0x2c0c	11276	9437196	PS12: Parameter sets loaded	No Reaction	-	
xx.0144.00013	0x2c0e	11277	9437197	PS13: Parameter sets saved	No Reaction	-	
xx.0123.00205	0x17cd	6093	8061133	Sd3: Open circuit HTL 2-fold or 4-fold	Fault	C00586	0x7300
xx.0123.00200	0x17c8	6088	8061128	Sd10: Speed limit for feedback system 12	Fault	C00607	0x7300
xx.0123.00210	0x17d2	6098	8061138	Sd18: V/f emergency operation	Information	-	
xx.0111.00002	0x0b02	2818	7274498	Su02: One mains phase is missing	Warning	C00565	0x3000
xx.0111.00003	0x0b03	2819	7274499	Su03: Too frequent mains switching	Fault	-	0x3000

Error number			C00162/1	Error message	Response (Lenze setting)	Adjustable in	CAN emergency error code
32 bits	16 bits$_{hex}$	16 bits$_{dec}$					
xx.0111.00004	0x0b04	2820	7274500	Su04: CU insufficiently supplied	Warning	-	0x3000
xx.0111.00006	0x0b06	2822	7274502	Su06: Power input overload	Fault	-	0x3000
xx.0111.00007	0x0b07	2823	7274503	Su07: 24V supply off	No Reaction	-	-
Freely configurable user error messages (see LS_SetError_1)							
xx.0980.00001	25600$_{dec}$ + C161/1*			User error 1	No Reaction	C00581/1	0x6200
xx.0981.00002	25856$_{dec}$ + C161/2*			User error 2	No Reaction	C00581/2	0x6200
xx.0982.00003	26112$_{dec}$ + C161/3*			User error 3	No Reaction	C00581/3	0x6200
xx.0983.00004	26368$_{dec}$ + C161/4*			User error 4	No Reaction	C00581/4	0x6200
* Only the lower 8 bits of the adjustable error ID (C161/x) can be used.							

9.9.6 Cause & possible remedies

This chapter contains all error messages of the inverter operating system in numerical order of the error numbers. The list provides detailed information on the response to the error message as well as information on the cause & possible remedies.

Note!

For the sake of legibility, the Logbook and C00165 display the error number with the following syntax:
[**Error type**].[**Error subject area no.**].[**Error ID**]

In this documentation, "xx", a wildcard, stands for the error type since it is configurable for many error messages.

Tip!

A list of all error messages of the inverter operating system in alphabetical order can be found in the previous chapter "Short overview (A-Z)" (📖 465).

Su02: One mains phase is missing [xx.0111.00002]

Response (Lenze setting printed in bold)	**Setting:** C00565 (☑ Adjustable response)
☑ 0: No Reaction ☑ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☒ **5: Warning** ☐ 6: Information	

Cause	Remedy
A mains phase of a three-phase supply has failed.	Check mains connection (terminal X100).

Su03: Too frequent mains switching [xx.0111.00003]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy
Too frequent mains switching of the power section. • The device recognises if the power section is switched on and off too frequently. • To protect internal charging connections from destruction, the device reports this error and prevents the controller inhibit. All other functions are active. Use of a power supply module in the DC-bus connection, the DC terminals of which are connected downstream to the charging connection for the voltage DC bus (e.g. 9400 from 45 kW).	The error must be acknowledged by mains switching. The charging circuit can only cool down when the mains is switched off. • After switching the mains 3 times in one minute, there must be a switching pause of 9 minutes. • Cyclic mains switching every 3 minutes is permissible. From version 12.00.00 onwards, this power supply module can be used in the DC-bus connection by enabling it via C02865 (bit 8). **Note:** For further configuration of devices in the DC-bus connection with 8400, the DC terminals of which are connected downstream to the charging connection for the voltage DC bus (e.g. 9400 from 45 kW with 8400) contact Lenze.

Su04: CU insufficiently supplied [xx.0111.00004]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☐ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☒ **5: Warning** ☐ 6: Information

Cause	Remedy
After switching on the device, the 24V supply voltage for the control electronics is too low (100 ms after switch-on U is < 19V). • The current supply voltage is displayed in C00065.	With internal supply voltage via the power electronics, the inverter must be replaced. With external supply voltage, check the correct connection and/or the stability of the supply voltage.

Su06: Mains input overload [xx.0111.00006]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy
In order to protect the device from overload, the following device outputs have a hardware detection in the mains input: 7.5 kW, 11 kW, 15 kW, 30 kW, 37 kW, 45 kW. In case of the error message "Su06", this hardware detection has responded.	• Check whether all mains phases are connected (a 2-phase supply may be existent). • Provide for sufficient cooling of the device.

Su07: 24V supply off [xx.0111.00007]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☐ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy

oH4: Heatsink temp. > shutdown temp. -5°C [xx.0119.00000]

Response (Lenze setting printed in bold)	**Setting:** C00582 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	

Cause	Remedy
The heatsink temperature now only differs by 5 °C from the shutdown temperature of the motor.	Prevent further heating, i.e. reduce motor load or set controller inhibit so that the heatsink can cool down again.

oH1: Heatsink overtemperature [xx.0119.00001]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy
The heatsink temperature is higher than the fixed limit temperature (90 ° C). Maybe the ambient temperature of the controller is too high or the fan or its ventilation slots are dirty.	• Check control cabinet temperature. • Clean filter. • Clean inverter. • If required, clean or replace the fan. • Provide for sufficient cooling of the device.

oH3: Motor temperature (X106) triggered [xx.0119.00015]

Response (Lenze setting printed in bold)	**Setting:** C00585 (☑ Adjustable response)
☑ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	

Cause	Remedy
The motor temperature monitoring function at the plug connector X106, terminal T1 /T2, has tripped. Possible causes: • The motor is overheated so that the thermal contact integrated into the motor has been switched. • An open circuit or a loose contact at the connections mentioned above has occurred.	• Check motor temperature monitoring. • Provide for sufficient cooling of the motor. • Check terminals for open circuit or loose contact.

oC5: Ixt overload [xx.0119.00050]

Response (Lenze setting printed in bold)	**Setting:** C00604 (☑ Adjustable response)
☑ 0: No Reaction ☑ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☒ **5: Warning** ☐ 6: Information	

Cause	Remedy
The Ixt overload check has tripped. • Operating threshold = 100 % Ixt (adjustable in C00123) Possible causes: • Wrong dimensioning of the device with regard to its motor load. • Load cycles are not complied with.	• Check and, if required, correct dimensioning of the device and the motor load with regard to technical data. • Reduce motor load cycles (observe load cycles according to documentation).

ot1: Maximum torque reached [xx.0123.00001]

Response (Lenze setting printed in bold)	**Setting:** C00608 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	

Cause	Remedy
The device indicates that the maximally possible torque at the motor shaft has been reached. • C00057 displays the current torque.	Reduce motor load.

oC7: Motor overcurrent [xx.0123.00007]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy
The maximum current monitoring function has been triggered. • The instantaneous value of the motor current has exceeded the limit value set in C00939.	Check and, if required, correct dimensioning of the load with regard to the installed device power.

oU: DC bus overvoltage [xx.0123.00014]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☑ 1: Fault ☒ **2: Trouble** ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy

The device has detected an overvoltage in the DC bus. To protect the device hardware, the inverter control is switched off.
• Depending on the configuration of the auto-start lock function, set C00142 so that, when this error is tripped, the inverter only restarts after the controller inhibit has been switched.
• If this error message remains active longer than the time set in C00601, a "Fault" is tripped. Otherwise, the deactivation of the error message causes the inverter control to be enabled again
  • In case of the control types VFCplus and SLVC, the motor voltage is approached to the voltage setpoint alongside a ramp.
  • From version 15.00.00, this voltage ramp can be set in C00983/2. If the described remedies are not possible or do not have any effect, it may be required to increase this voltage ramp as otherwise an overcurrent interruption may be caused. This only happens in case of high motor power and mass inertia so that the Lenze setting of 1 s should be sufficient in the majority of cases.
	• Reduce regenerative load.
	• Use brake resistor.
	• Use a regenerative power supply unit.
	• Establish a DC-bus connection.
	• Select a braking method in C00175 which stops the ramp function generator when reaching the brake chopper threshold ("HlgStop").

LU: DC bus undervoltage [xx.0123.00015]

Response (Lenze setting printed in bold)	**Setting:** C00600/1 (☑ Adjustable response)
☐ 0: No Reaction ☑ 1: Fault ☒ **2: Trouble** ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information	

Cause	Remedy
The device has detected a DC bus undervoltage. The inverter control is switched off because the drive properties of the motor control cannot be provided anymore due to the DC bus undervoltage. • Depending on the configuration of the auto-start lock function, set C00142 so that, when this error is tripped, the inverter only restarts after the controller inhibit has been switched.	• Switch on mains supply or ensure sufficient supply via DC bus. • Adjust setting in C00142 if required.

oC1: Power section - short circuit [xx.0123.00016]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy
The device has recognised a short circuit of the motor phases. To protect the device electronics, the inverter control is switched off. • Mostly, incorrectly executed motor connections are the cause. • If the device is inappropriately dimensioned with regard to the motor load and the current limitation in the controller (Imax controller) is set incorrectly, this error message may also occur. ▸ Motor control: Defining current limits	• Check motor connections and the corresponding plug connector on the device. • Only use permissible combinations of device power and motor power. • Do not set the dynamics of the current limitation controller too high.

oC2: Power section - earth fault [xx.0123.00017]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy

The device has recognised an earth fault at one of the motor phases. To protect the device electronics, the inverter control is switched off.
• Mostly, incorrectly executed motor connections are the cause.
• If motor filter, motor cable length, and cable type (shielding capacity) are dimensioned incorrectly, this error message may occur due to leakage currents to PE.
• If motor filters with additional terminals for +UG and –UG and devices greater or equal 3 kW are used, the earth fault detection may be triggered due to leakage currents to +UG and –UG.
• A cause can also be the use of shielded motor cables longer than 50 m.
	• Check motor connections and the corresponding plug connector on the device.
	• Use motor filters, cable lengths, and cable types recommended by Lenze.
	• If motor filters with additional terminals for +UG and –UG and devices greater or equal 3 kW are used:
	  • up to version V05.00.00: Set resp. to earth fault (C00602) to "0: No Reaction".
	  • From version V05.01.00 onwards: Deactivate earth-fault detection during operation by setting the filter time (C01770) to 250 ms.
	• If motor cables longer than 50 m are used:
	  • From version V05.01.00 onwards: Increase filter time for earth-fault detection during operation (C01770).

oC10: Maximum current reached [xx.0123.00030]

Response (Lenze setting printed in bold)	**Setting:** C00609 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	

Cause	Remedy
The device displays that the maximum current has been reached.	• Check and, if required, correct dimensioning of the load with regard to the installed device power. • Check the maximum current settings in C00022 (Imax in motor mode) and C00023 (Imax in generator mode).

oC17: Clamp sets pulse inhibit [xx.0123.00031]

Response (Lenze setting printed in bold)	**Setting:** C00569/1 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	

Cause	Remedy
Due to a short overcurrent, the inverter was switched off for a short time (clamp disconnection).	• Check and, if required, correct dimensioning of the load with regard to the installed device power. • Reduce the dynamics of the setpoint change or speed control.

oS1: Maximum speed limit reached [xx.0123.00032]

Response (Lenze setting printed in bold)	**Setting:** C00579 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	

Cause	Remedy
The device has recognised that the maximum speed has been reached.	• Limit setpoint selection to maximum values. • Adjust set speed limitation (C00909) and frequency limitation (C00910).

oS2: Max. motor speed [xx.0123.00033]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy
The device has recognised that the maximally permissible motor speed has been reached.	• Limit setpoint selection to the maximally permissible motor speed. • If required, adapt set maximum motor speed (C00965).

oC18: Current monitoring overload [xx.0123.00034]

Response (Lenze setting printed in bold)	**Setting:** C00584/1 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☐ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☑ 6: Information	

Cause	Remedy
The current monitoring overload has tripped because the apparent motor current has exceeded the switch-off threshold set in C00124/1 for the delay time set in C00563/1C00563/1.	• Reduce overload. • Increase switch-off threshold (C00124/1).

Id1: Motor data identification error [xx.0123.00057]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy
During the identification of motor parameters, an error has occurred. Possible causes: • Interrupted motor cable. • Switched-off power section during the identification. • Implausible start parameter settings.	• Check the motor connections and the corresponding plug connector on the device and, if necessary, the motor terminal box. • Correct start parameters for the motor parameter identification (motor nameplate data). • Stable power supply of the device.

Id3: CINH identification [xx.0123.00058]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☐ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☒ **4: WarningLocked** ☐ 5: Warning ☐ 6: Information

Cause	Remedy
The device has detected controller inhibit during the motor data identification. • This cancels the identification process. The Lenze setting of the motor data is used.	• Do not set controller inhibit during the motor data identification. • Do not execute any device function which may activate controller inhibit.

Id4: Resistor identification error [xx.0123.00059]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☐ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☒ **5: Warning** ☐ 6: Information

Cause	Remedy
The device has recognised that an error has occurred in the calculation of the motor cable resistance. • The parameters for cable cross-section and cable length are implausible.	Enter sensible values for cable cross-section and motor cable length.

Id7: Motor control does not match motor data [xx.0123.00060]

Response (Lenze setting printed in bold)	**Setting:** C00571/1 (☑ Adjustable response)
☑ 0: No Reaction ☑ 1: Fault ☑ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☒ **6: Information**	

Cause	Remedy
At controller enable, the device has detected that the motor control type set in C00006 cannot control the motor type set. • Example: Motor nameplate data for an asynchronous motor have been entered; however, a motor control type for a synchronous motor is set in C00006. **Note:** Since the "VFCplus" control types are able to control every motor to a certain extent, this error message will never occur here.	Enter correct motor nameplate data and set a matching motor control type in C00006: • Motor nameplate data asynchronous motor → motor control type must be ASM, SLVC or VFCplus servo control. • Motor nameplate data synchronous motor → motor control type must be PSM, SLPSM or VFCplus servo control.

Id8: Speed encoder has not been set [xx.0123.00061]

Response (Lenze setting printed in bold)	**Setting:** C00571/2 (☑ Adjustable response)
☑ 0: No Reaction ☒ **1: Fault** ☑ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☑ 6: Information	

Cause	Remedy
When being In controller enable status, the device has detected that a motor control type with feedback has been set in C00006 , but no speed sensor has been set in C00495.	Set the speed sensor in C00495. **Note:** The error can only be reset if the settings in C00006 and C00495 match.

oC12: I2xt overload - brake resistor [xx.0123.00065]

Response (Lenze setting printed in bold)	**Setting:** C00574/1 (☑ Adjustable response)
☒ 0: No Reaction ☐ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information	

Cause	Remedy
Too frequent and too long braking processes.	Check drive dimensioning.

oC19: Brake resistor - short circuit [xx.0123.00066]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy
• Short circuit at the terminals of the brake resistor. • Low-resistance brake resistor.	• Check terminals of the brake resistor. • Check brake resistor.

oC11: Clamp operation active [xx.0123.00071]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy
The device indicates that the "CLAMP" overcurrent limitation has been activated. • A permanent clamp operation causes an overload disconnection.	Reduce setpoint generation dynamics or motor load.

Id5: Pole position identification error [xx.0123.00074]

Response (Lenze setting printed in bold)	**Setting:** C00643/1 (☑ Adjustable response)
☑ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☑ 6: Information	

Cause	Remedy
Pole position identification has not been completed successfully.	Check parameter setting of the pole position identification.

oC13: Maximum current for Fch exceeded [xx.0123.00090]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy
The device has detected a motor current which exceeds the maximum current limit at permanent switching frequency of the inverter. • If a permanent switching frequency inverter is set, a certain limit arises for the maximum current, depending on the setting. If this current limit is exceeded due to a load impulse or overload, an error message is displayed.	• Observe the maximum current setting depending on the set switching frequency of the inverter. • Reduce the required load or setting of the dynamic switching frequency if necessary.

ot2: Speed controller output limited [xx.0123.00093]

Response (Lenze setting printed in bold)	**Setting:** C00567 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	

Cause	Remedy
The output of the speed controller has reached the internal limit value. In this status, the speed controller is not able anymore to correct the system deviation. • Only during "Closed loop" operation or with vector control (SLVC).	• Observe load requirements. • Correct dimensioning or reduce setpoint generation dynamics if necessary. ▸ Motor control

FC01: Switching frequency reduction [xx.0123.00094]

Response (Lenze setting printed in bold)	**Setting:** C00590 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	

Cause	Remedy
Load-dependent switching frequency reduction	• Observe load requirements. • Correct dimensioning or reduce setpoint generation dynamics if necessary. ▸ Motor control

FC02: Maximum speed for Fchop [xx.0123.00095]

Response (Lenze setting printed in bold)	**Setting:** C00588 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	

Cause	Remedy
Maximum speed for chopper frequency has been reached. • The maximum speed has been exceeded depending on the switching frequency.	Select the correct maximum speed as a function of the switching frequency. ▸ Motor control: Determine speed limits

oC14: Direct-axis current controller limitation [xx.0123.00096]

Response (Lenze setting printed in bold)	**Setting:** C00570/1 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	

Cause	Remedy
Direct-axis current controller limitation is active.	• Observe load requirements. • Correct dimensioning or reduce setpoint generation dynamics if necessary. ▸ Motor control

oC15: Cross current controller limitation [xx.0123.00097]

Response (Lenze setting printed in bold)	**Setting:** C00570/2 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	

Cause	Remedy
Cross current controller limitation is active.	• Observe load requirements. • Correct dimensioning or reduce setpoint generation dynamics if necessary. • Check parameter setting of the current controller with regard to the motor controllers (e.g. reduce Vp). ▸ Motor control

oC16: Torque controller limitation [xx.0123.00098]

Response (Lenze setting printed in bold)	**Setting:** C00570/3 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	

Cause	Remedy
Actuator limitation according to speed controller.	• Observe load requirements. • Correct dimensioning or reduce setpoint generation dynamics if necessary. ▸ Motor control

FC03: Field controller limitation [xx.0123.00099]

Response (Lenze setting printed in bold)	**Setting:** C00570/4 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	

Cause	Remedy
The output of the field controller has reached its maximum limit value. The drive is at the torque limit in the field weakening range.	• Observe load requirements. • Correct dimensioning or reduce setpoint from the field weakening range if necessary. ▸ Motor control

oC6: I2xt overload - motor [xx.0123.00105]

Response (Lenze setting printed in bold)	**Setting:** C00606 (☑ Adjustable response)
☑ 0: No Reaction ☑ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☒ **5: Warning** ☐ 6: Information	

Cause	Remedy
Thermal overload of the motor.	Only self-ventilated motors can be monitored using the I2xt function. • Check whether is it a self-ventilated motor. If not, set C00606 to "0: No Reaction". • Observe load requirements. • Correct dimensioning if necessary. • For VFCplus control type: Check Vmin boost (C00016). ▸ Set Vmin boost

LP1: Motor phase failure [xx.0123.00145]

Response (Lenze setting printed in bold)	**Setting:** C00597 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	

Cause	Remedy
Motor phase failure - power section • This error message is displayed if a motor phase carries less current of one half-wave than set in C00599.	• Check the motor connections and the corresponding plug connector on the device and, if necessary, the motor terminal box. • Check the trigger threshold (C00599).

Sd10: Speed limit - feedback system 12 [xx.0123.00200]

Response (Lenze setting printed in bold)	**Setting:** C00607 (☑ Adjustable response)
☑ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	

Cause	Remedy
Maximally permissible speed of the feedback system connected to DI1/DI2 reached.	Reduce speed of the rotation shaft/feedback system. $n_{encoder}$ <= (f_{max} x 60) / encoder increments (for f_{max} = 10 kHz)

Sd3: Open circuit HTL 2-fold or 4-fold [xx.0123.00205]

Response (Lenze setting printed in bold)	**Setting:** C00586 (☑ Adjustable response)
☑ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	

Cause	Remedy
• HTL encoder cable interrupted. • HTL encoder is defective. Note: May also be caused by a very dynamic acceleration or starting up against a blocked motor shaft (e.g. with a closed holding brake).	• Check HTL encoder cable. • Check HTL encoder. • Check related terminals. • Switch off monitoring (C00586 = "0: No reaction") when the HTL encoder is not used.

Sd18: V/f emergency operation [xx.0123.00210]

Response (Lenze setting printed in bold)	
☐ 0: No Reaction ☐ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☑ 6: Information	

Cause	Remedy
Error in encoder system	Check all available encoder error messages. Perform the troubleshooting measures for these error messages as described in this manual.

An01: AIN1_I < 4 mA [xx.0125.00001]

Response (Lenze setting printed in bold)	**Setting:** C00598/1 (☑ Adjustable response)
☑ 0: No Reaction ☑ 1: Fault ☑ 2: Trouble ☒ **3: TroubleQuickStop** ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	

Cause	Remedy
Open-circuit monitoring for analog input 1 has tripped. • Only if the analog input has been configured as a current loop of 4 ... 20 mA (C00034/1 = 2).	• Check wiring of the analog X3/A1I input terminal for open circuit. • Check minimum current values of the signal sources.

CE04: MCI communication error [xx.0127.00002]

Response (Lenze setting printed in bold)	Setting: C01501/1 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☑ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☑ 6: Information	

Cause	Remedy
Communication error with extension module in slot 1.	• Check setting of sync window (C01123) if sync signal source (C01120) is set to "4: MCI". • Eliminate EMC interference. • Switch off inverter, correctly plug in the module, switch on the inverter again. • Switch mains or restart inverter. • Replace module/inverter. • Please contact Lenze if the problem occurs again.

CE0F: MCI control word [xx.0127.00015]

Response (Lenze setting printed in bold)	Setting: C00594/2 (☑ Adjustable response)
☑ 0: No Reaction ☒ **1: Fault** ☑ 2: Trouble ☑ 3: TroubleQuickStop ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	

Cause	Remedy
Bit 14 ("SetFail") of the wMciCtrl control word of the LS_DriveInterface system block has been set.	Trace back signal source on the bus (e.g. PROFIBUS) that sets bit 14 ("SetFail").

CE4: CAN bus off [xx.0131.00000]

Response (Lenze setting printed in bold)	Setting: C00592/2 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☑ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☑ 6: Information	

Cause	Remedy
CAN on board: "Bus off" status • Received too many faulty telegrams. • Damaged cable (e.g. loose contact). • Two nodes with the same ID.	• Check wiring and bus terminating resistor. • Set identical baud rate for each bus node. • Assign different IDs to nodes. • Eliminate electrical interference (e.g. EMC).

CA06: CAN CRC error [xx.0131.00006]

Response (Lenze setting printed in bold)	Setting: C00592/1 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☑ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☑ 6: Information	

Cause	Remedy
CAN on board: A faulty CAN telegram has been detected.	• Check wiring and bus terminating resistor. • Eliminate electrical interference (e.g. EMC).

CA07: CAN bus warning [xx.0131.00007]

Response (Lenze setting printed in bold)	Setting: C00592/3 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☑ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☑ 6: Information	

Cause	Remedy
CAN on board: Incorrect transmission or reception of more than 96 CAN telegrams. • The current number of incorrectly transmitted CAN telegrams is displayed in C00372/1. • The current number of incorrectly received CAN telegrams is displayed in C00372/2. • The current CAN error status is displayed in C00345.	• Check wiring and bus terminating resistor. • Set identical baud rate for each bus node. • Assign different IDs to nodes. • Eliminate electrical interference (e.g. EMC).

CA08: CAN bus stopped [xx.0131.00008]

Response (Lenze setting printed in bold)	Setting: C00592/4 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☑ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☑ 6: Information	

Cause	Remedy
CAN on board: The device has received the "Stop Remote Node" NMT telegram.	Check CAN master (NMT master).

CA0b: CAN HeartBeatEvent [xx.0131.00011]

Response (Lenze setting printed in bold)	Setting: C00592/5 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☑ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☑ 6: Information	

Cause	Remedy
CAN on board: Cyclic node monitoring • Being a Heartbeat consumer, the device has not received a Heartbeat telegram from Heartbeat producer 1 ... 7 within the defined time. • The current states of the Heartbeat producers are displayed in C00347/1...7.	• Reactivate Heartbeat producers by mains switching, restarting the inverter, or a CAN Reset Node. • Reparameterise CAN Heartbeat producer time or switch off consumer monitoring and reset error status if latched. ▸ Heartbeat protocol

CA0F: CAN control word [xx.0131.00015]

Response (Lenze setting printed in bold)	Setting: C00594/1 (☑ Adjustable response)
☑ 0: No Reaction ☒ **1: Fault** ☑ 2: Trouble ☑ 3: TroubleQuickStop ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	

Cause	Remedy
Bit 14 ("SetFail") in the wCANControl control word of the LS_DriveInterface system block has been set.	Trace back signal source on the CAN bus that sets bit 14 ("SetFail").

CE1: CAN RPDO1 [xx.0135.00001]

Response (Lenze setting printed in bold)	Setting: C00593/1 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☑ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☑ 6: Information	

Cause	Remedy
CAN on board: Time monitoring for RPDO1 has been triggered. • RPDO1 has not been received within the monitoring time set in C00357/1 or was faulty.	• Set correct telegram length for CAN master (transmitter). • Eliminate electrical interference (e.g. EMC). • Adjust monitoring time C00357/1 or switch off time monitoring.

CE2: CAN RPDO2 [xx.0135.00002]

Response (Lenze setting printed in bold)	Setting: C00593/2 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☑ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☑ 6: Information	

Cause	Remedy
CAN on board: Time monitoring for RPDO2 has been triggered. • RPDO2 has not been received within the monitoring time set in C00357/2 or was faulty.	• Set correct telegram length for CAN master (transmitter). • Eliminate electrical interference (e.g. EMC). • Adjust monitoring time C00357/2 or switch off time monitoring.

CE3: CAN RPDO3 [xx.0135.00003]

Response (Lenze setting printed in bold)	**Setting:** C00593/3 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☑ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☑ 6: Information	

Cause	Remedy
CAN on board: Time monitoring for RPDO3 has been triggered. • RPDO3 has not been received within the monitoring time set in C00357/3 or was faulty.	• Set correct telegram length for CAN master (transmitter). • Eliminate electrical interference (e.g. EMC). • Adjust monitoring time C00357/3 or switch off time monitoring.

CE5: CAN RPDO4 [xx.0135.00004]

Response (Lenze setting printed in bold)	**Setting:** C00593/4 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☑ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☑ 6: Information	

Cause	Remedy
CAN on board: Time monitoring for RPDO4 has been triggered. • RPDO4 has not been received within the monitoring time set in C00357/4 or was faulty.	• Set correct telegram length for CAN master (transmitter). • Eliminate electrical interference (e.g. EMC). • Adjust monitoring time C00357/4 or switch off time monitoring.

CI01: Module missing/incompatible [xx.0140.00013]

Response (Lenze setting printed in bold)	**Setting:** C01501/2 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☑ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☑ 6: Information	

Cause	Remedy
The optional communication module has been removed or there is a connection problem or incompatibility with the standard device.	• Check connection between the communication module and standard device. • Check if the module is plugged in correctly. • In case of an incompatibility, either the module or the software of the standard device is out of date. In this case, please contact Lenze.

PS01: No memory module [xx.0144.00001]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☐ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☒ **5: Warning** ☐ 6: Information

Cause	Remedy
Memory module is either not available or not snapped into place correctly.	• If a memory module has been provided: Plug the memory module into the slot of the standard device intended for this purpose. • If a memory module has been provided: Check if the memory module has been plugged-in correctly.

PS02: Par. set invalid [xx.0144.00002]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy
The parameter set stored in the memory module is invalid. The reason for this can be as follows: • Incomplete storage of the parameter set due to voltage failure. • The plugged-in module stems from a device with new firmware (compare C00099) or from a different device type (e.g. 8400 BaseLine).	The error can only be removed by loading the Lenze setting with the C00002/1 = "1: On / start" device command. • In order to prevent the error, do not switch off the voltage during the saving process. • If the parameter set is to be transferred from one device with a higher version to a device with a lower version, use the "copy parameter set" function of the keypad. Make sure that you do not use functions that are not available in the older device.

PS03: Par. set device invalid [xx.0144.00003]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy
The parameter set saved to the memory module is incompatible to the standard device. • An incompatibility of the parameter set is caused e.g. when the memory module of an 8400 HighLine is plugged into an 8400 StateLine or the parameter set in the memory module has a higher version than expected by the standard device. If the parameter set stored in the memory module is compatible with the standard device but has a different (lower) version, this message is only output as "Information". The message can be eliminated by saving the parameter set again. **Note:** If you save the parameter set to a higher device version, you can no longer load this parameter set to a lower device version. ▸ Replacement of the inverter	When the memory modules are replaced, observe the compatibility: • OK: StateLine V2.0 to StateLine V3.0 • OK: StateLine V2.0 to HighLine V2.0 • Not OK: HighLine Vx.x to StateLine Vx.x • Not OK: StateLine V3.0 to StateLine < V3.0

PS04: Par. set Mci invalid [xx.0144.00004]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy
The parameter set saved to the communication module is incompatible to the standard device. • An incompatibility of the parameter set is caused e.g. when the MCI module parameters in the memory module do not match the plugged communication module.	When the memory modules are replaced, observe the compatibility: • Not OK: Profibus V1.0 to EtherCAT V1.0

PS07: Par. memory module invalid [xx.0144.00007]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy
The parameter set saved to the memory module is invalid. • The error occurs while loading the parameter set. • The memory module plugged in the device lacks a code or a code is incorrect.	Please contact Lenze.

PS08: Par. device invalid [xx.0144.00008]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy
The parameter set in the device is invalid. • The error occurs while loading the parameter set. • One code in the device is incorrect.	Please contact Lenze.

PS09: Par. format invalid [xx.0144.00009]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy
The code format is invalid. • The error occurs while loading the parameter set.	Please contact Lenze.

PS10: Memory module binding invalid [xx.0144.00010]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy
Device personalisation is active: The binding ID of the memory module does not comply with the binding ID of the inverter.	• Use memory module/inverter with matching binding IDs. • Contact machine manufacturer. **Note:** It is not possible for Lenze to modify a replacement device via special accesses in such a way that it cooperates with a personalised memory module.

PS11: Lenze setting loaded [xx.0144.00011]

Response (Lenze setting printed in bold)
☐ 0: No Reaction ☐ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information

Cause	Remedy

PS12: Parameter sets loaded [xx.0144.00012]

Response (Lenze setting printed in bold)	
☐ 0: No Reaction ☐ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information	
Cause	**Remedy**

PS13: Parameter sets saved [xx.0144.00013]

Response (Lenze setting printed in bold)	
☐ 0: No Reaction ☐ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information	
Cause	**Remedy**

dF01: FW updated [xx.0145.00001]

Response (Lenze setting printed in bold)	
☐ 0: No Reaction ☐ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information	
Cause	**Remedy**

dF14: SW-HW invalid [xx.0145.00014]

Response (Lenze setting printed in bold)	
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information	
Cause	**Remedy**
Device error	Please contact Lenze.

dF18: BU RCOM error [xx.0145.00024]

Response (Lenze setting printed in bold)	
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information	
Cause	**Remedy**
Device error	Please contact Lenze.

dF25: CU RCOM error [xx.0145.00025]

Response (Lenze setting printed in bold)	
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information	
Cause	**Remedy**
Device error	Please contact Lenze.

dF26: Appl. watchdog [xx.0145.00026]

Response (Lenze setting printed in bold)	**Setting:** C00580/1 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☑ 5: Warning ☐ 6: Information	
Cause	**Remedy**
Time-out of the application. The required computing time of the application exceeds the available computing time.	Reduction of the function block interconnection or the complexity of the application.

dF21: BU watchdog [xx.0145.00033]

Response (Lenze setting printed in bold)	
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information	
Cause	**Remedy**
Device error	Please contact Lenze.

dF22: CU watchdog [xx.0145.00034]

Response (Lenze setting printed in bold)	
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information	
Cause	**Remedy**
Device error	Please contact Lenze.

dF10: AutoTrip reset [xx.0145.00035]

Response (Lenze setting printed in bold)	**Setting:** C00189 (☑ Adjustable response)
☑ 0: No Reaction ☒ **1: Fault** ☑ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☑ 6: Information	
Cause	**Remedy**
Too frequent auto-trip reset.	• Check the error cause that activates the auto-trip reset. • Eliminate error cause and reset (acknowledge) error manually afterwards.

dF50: Retain error [xx.0145.00050]

Response (Lenze setting printed in bold)	
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information	
Cause	**Remedy**
An error has occurred when accessing retain data. • Either caused by an internal hardware error or by lack of mains switching after a firmware download.	Mains switching • Please contact Lenze if the problem occurs again.

dF51: CuCcr error [xx.0145.00051]

Response (Lenze setting printed in bold)	
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information	
Cause	**Remedy**
Device error	Mains switching • Please contact Lenze if the problem occurs again.

dF52: BuCcr error [xx.0145.00052]

Response (Lenze setting printed in bold)	
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information	
Cause	**Remedy**
Device error	Mains switching • Please contact Lenze if the problem occurs again.

Ck15: Error status sign. brake [xx.0184.00005]

Response (Lenze setting printed in bold)	
☐ 0: No Reaction ☐ 1: Fault ☐ 2: Trouble ☒ **3: TroubleQuickStop** ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information	
Cause	**Remedy**
MCK: The status monitoring of the holding brake control has tripped.	• Check configuration of the *bMBrakeApplied* input for status detection of the brake (via a switching contact at the brake). • Check wiring/function of the switching contact. • Adapt waiting time (C02589/3). • Deactivate status monitoring (via bit 5 in C02582).

Ck16: Time overflow manual operation [xx.0184.00064]

Response (Lenze setting printed in bold)	
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information	
Cause	**Remedy**
PC manual control: The connection monitoring has tripped. • The online connection between the PC and the inverter has been interrupted for a longer period of time than the timeout set in C00464/1.	• Check communication link between PC and inverter. • Check voltage supply/function of the inverter. • Adjust the timeout (C00464/1).

dH09: EEPROM power section [xx.0400.00009]

Response (Lenze setting printed in bold)	
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information	
Cause	**Remedy**
Device error	Please contact Lenze.

dH10: Fan failure [xx.0400.00016]

Response (Lenze setting printed in bold)	**Setting:** C00566 (☑ Adjustable response)
☑ 0: No Reaction ☑ 1: Fault ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☒ **5: Warning** ☐ 6: Information	
Cause	**Remedy**
The device fan has failed. Possible causes: • The short-circuit check of the fan connection has tripped. • The speed monitoring of the fan has tripped.	• Check the fan for short-circuit. • Clean the fan.

dH68: Adjustment data error CU [xx.0400.00104]

Response (Lenze setting printed in bold)	
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information	
Cause	**Remedy**
Device error	Please contact Lenze.

dH69: Adjustment data error BU [xx.0400.00105]

Response (Lenze setting printed in bold)	
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information	
Cause	**Remedy**
Device error	Please contact Lenze.

dH70: ControlUnit is unequal to BaseUnit [xx.0400.00106]

Response (Lenze setting printed in bold)	
☐ 0: No Reaction ☒ **1: Fault** ☐ 2: Trouble ☐ 3: TroubleQuickStop ☐ 4: WarningLocked ☐ 5: Warning ☐ 6: Information	
Cause	**Remedy**
Device error	Please contact Lenze.

User error 1 [xx.0980.00000 ... xx.0980.65535]

Response (Lenze setting printed in bold)	Setting: C00581/1 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☑ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☑ 6: Information	
Cause	**Remedy**
User error 1 has been tripped via the *bSetError1* input of the LS_SetError_1 system block.	User-defined.

User error 2 [xx.0981.00000 ... xx.0981.65535]

Response (Lenze setting printed in bold)	Setting: C00581/2 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☑ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☑ 6: Information	
Cause	**Remedy**
User error 2 has been tripped via the *bSetError2* input of the LS_SetError_1 system block.	User-defined.

User error 3 [xx.0982.00000 ... xx.0982.65535]

Response (Lenze setting printed in bold)	Setting: C00581/3 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☑ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☑ 6: Information	
Cause	**Remedy**
User error 3 has been tripped via the *bSetError3* input of the LS_SetError_1 system block.	User-defined.

User error 4 [xx.0983.00000 ... xx.0983.65535]

Response (Lenze setting printed in bold)	Setting: C00581/4 (☑ Adjustable response)
☒ **0: No Reaction** ☑ 1: Fault ☑ 2: Trouble ☑ 3: TroubleQuickStop ☑ 4: WarningLocked ☑ 5: Warning ☑ 6: Information	
Cause	**Remedy**
User error 4 has been tripped via the *bSetError4* input of the LS_SetError_1 system block.	User-defined.